## Water Bay Transit confer ence held at Ames



Left: Members of the Bay Area Blue Ribbon Water Transit task force visit the most probable site for a commercial ferry port at Ames during their tour. The old channel to the Bay can be seen center-left with Hangars 2 and 3 in the background.

Right: Deputy Director William Berry briefs the Blue Ribbon Water Transit task force on possible development scenarios at Ames during their April 12 visit.



# Airshow plans "take of

On Father's Day weekend, June 19-20, the "Wings Over Moffett" event will bring an annual airshow back to the NASA Ames Moffett Field Complex. The "Wings of History" organization, which had held its event at the Watsonville airshow for many years, is a co-sponsor of "Wings Over Moffett" along with the Moffett Historical Society. These non-profit organizations will use airshow proceeds from tickets and vendors to support their museums and participating non-profit and community service organizations.

The airshow emergency services group will be responsible for providing emergency services for this event as well as the Watsonville Airshow.

Volunteers, with and without amateur radio experience, will be needed and are requested to sign up in advance of the airshow, preferably before May 8. Walk-on volunteers will not be accepted. Certified introductory training in the standardized emergency management system (SEMS) and the incident command system (ICS) utilized by local, state, and federal governments will be provided as a prerequisite to participation. Volunteers will be scheduled

into multiple functions to enhance the experience of the event. Volunteer positions include those of command, safety/ security, medical, dispatcher/communications, amateur radio, aircraft recovery, and

Airshow volunteers and family members are offered free admission and parking on Moffett Field. Expenses incurred are considered deductible as a donation to a non-profit charitable organization. A minimum commitment of 8 hours on any one day is required to receive passes and privi-

Organizations and groups that participate substantially in support of the event may be able to request a free exhibit booth on the flight line area to promote their club or activity. To sign up or to obtain more information, refer to the Ames Amateur Radio website which is at: http:// www.hamradio.arc.nasa.gov or email at: mesaofc@pacific.net requesting the form. For any other questions, contact Scott Emery at email: emery@nas.nasa.gov or mallard@mail.arc.nasa.gov.

BY CARL HONAKER

# **NASAlicenses** new educational Mars CD-Rom

NASA Ames has licensed a new interactive CD-Rom that allows students to virtually explore Mars, understand the basic concepts of space exploration and search for life in the universe.

Ames developed the Mars Virtual Exploration CD-Rom as a captivating way to educate students about Mars. Ames recently licensed the CD-Rom to Modern School Supplies, Inc., Bloomfield, CT, which plans to market the CD-Rom to schools throughout the country.

"We think this partnership will enable the largest distribution possible of this innovative, educational CD-Rom," said Phil Herlth of NASA Ames' Commercial Tech-

nology Office.

Designed for students in the fourth through eighth grade, the CD-Rom provides the equivalent of 40 hours of classroom instruction about the red planet. To use the CD-Rom, students divide into four teams and are assigned a research category in exopaleontology, meteorology, exobiology or volcanology, to conduct their search for life. For their mission objective, students virtually explore four landing sites on Mars and select the site best suited for their experiment.

Developed by the Educational Multimedia Research and Development Group of Ames' Office of External Affairs, the CD-Rom also includes a teacher's guide and student logbook, which provide additional content and interdisciplinary classroom activities to complement the multi-media product. Further information about Modern Supplies, Inc., is available at: http:// www/webcom.com/modernss/modern/ aboutus.html.

BY MICHAEL MEWHINNEY



related story on page

Ames ISO Website address: http:// dqa.arc.nasa.gov/ iso9000

#### ISO 9001

# ISO 9001 certification pr ocess begins at Ames

Next week, April 27-30, will begin the ISO 9001 certification process at Ames. An outside, third party audit team made up of personnel from Det Norske Veritas (DNV) Certification, Inc. will be onsite to assess the effectiveness of the center quality management system. The assessment will begin with an opening meeting between the DNV external audit team and the Ames management council. After this meeting, the auditors will visit various organizations to determine if there is a quality system in place, and if that system is effective in meeting the ISO 9001:1994 requirements.

Auditee(s) should:

Be available at the appropriate time and location. Nothing can turn an auditor more sour than getting to an auditee location and finding the auditee not available. Remember that while the auditor is auditing, he or she is indirectly measuring management and executive management commitment. The auditor is going to take a dim view of the commitment of executive management if employees are not available to be audited at the predetermined time and place.

Listen carefully to what is being asked. Do not anticipate an auditor's question, since you could end up answering the wrong question or revealing information that was not requested.

If you do not understand a question, do

not answer it. Let the auditor know that you do not understand the question. It is the auditor's responsibility to rephrase the question to get the information required. It is not your job to anticipate the auditor's questions.

Direct all answers to the specific question asked. The best answer to an auditor's question is a yes or no answer. Auditors will generally ask open-ended questions, but if they do not, the preferred answer is yes or no to any question asked.

Concentrate on answering the questions with concise explanations. Conciseness implies understanding and understanding implies conformance. You need to demonstrate the Ames center mantra "say it, do it, prove it," and before you know it, they will be on to the next auditee.

Reference the documentation (procedures, work instructions, forms, external documents, and the master list) from the web site http://dqa.arc.nasa.gov. The central source of all current documentation should be the web. Without exception, all Ames employees should be able to use the web-based document system. You will most likely be asked to demonstrate web usage sometime during the audit; so be prepared to do so.

Refer questions that pertain to areas outside of your responsibility to the guide

or your responsible manager. Never answer a question outside your direct control or process. Refer such questions to the guides that will be shadowing the auditors throughout this assessment process. The reason for this is that your answer to such a question might put someone else who owns the process on the spot.

Review and be knowledgeable of all pertinent documentation that applies to your area of responsibility. Nothing gets an audit off onto the right foot better than an auditee who really knows his or her documentation. Remember the audit is about finding conformance, not non-conformance. Once conformance has been established, it is on to other issues.

Be able to show to the auditor the objective evidence that is referenced in your documentation. Remember that objective evidence is the name of the game. If there is no evidence, then it did not happen. ISO defines objective evidence as findings that can be substantiated by information which is factual and which can be verified. Remember the auditor has only a limited time to question the auditee and, in that time, the auditor has to feel confident that the auditee truly abides by the documentation. This confidence is developed through the record history.

Make sure all safety issues are addressed. Auditors will note all safety issues such as gas cylinders not secured properly, electrical outlets overloaded, etc. These are hazards to people and products and our services.

Be upbeat and positive during the audit. Always be courteous. It does not cost anything and it does make things flow smoothly.

Auditee(s) should not:

Speak until asked a specific question. It's the auditor's show, so let them ask the question.

Speak about issues outside of your direct responsibility. Again, the issue here is do not answer questions about documents or processes that you do not directly control.

Offer opinions about anything; stick to facts and facts only. Auditors are looking for objective evidence. Opinions have no place in an audit; they only muddy the waters.

BY RICK SERRANO

# Manufacturing Technology meeting held at Ames

The NASA Headquarters Manufacturing Technology Steering Committee meeting was recently hosted by Code QS at Ames.

The committee is made up of representatives from each NASA Center and the Jet Propulsion Laboratory (JPL). The committee is responsible for Agency mission assurance policies related to new electronic manufacturing technologies.

New technology information and lessons learned were discussed between NASA, Department of Defense (DoD) and the European Space Agency (ESA) during the meeting.



photo by Dominic Hart

John Maristch of HQ (left) chats with Robert Navarro of Ames, Chief, Code QS (right) at the Manufacturing Technology Steering Committee meeting.

### Center Briefs/Activities

# **Center Briefs**

# McClain to leave NASA; Hawes named Acting Chief of Space Station

Gretchen McClain, a senior space station official at NASA Headquarters, has announced that she will leave the Agency to return to private industry later this month. Michael Hawes, NASA's chief engineer for the space station, will replace McClain in an acting capacity.

#### Deep Space 1 Technology

NASA's Deep Space 1 mission has successfully demonstrated most of its exotic technologies in space--including an ion engine that is expected to be ten times more efficient than conventional liquid or solid rocket engines--proving they are ready for use in science missions of the 21st century.

Launched October 24 of last year, Deep Space 1 is the first mission under NASA's New Millennium Program, which features flight testing of new technology, rather than science, as its main focus. These new technologies will make spacecraft of the future smaller, cheaper, more reliable and more independent of human control.

# Astronomers discover 'middleweight'' black holes

The field of black holes, formerly dominated by heavyweights packing the gravitational punch of a billion suns and lightweights just a few times heavier than our Sun, now has a new contender--a just-discovered mysterious class of "middleweight" black holes, weighing in at 100 to 10,000 suns.

NASA and Carnegie Mellon University have independently found evidence for the new type of black holes in spiral-shaped galaxies throughout the universe.

A black hole is a region of space where the force of gravity is so powerful that nothing, not even light, can escape its pull.

# International Space Station service module rollout set

The formal rollout and ribbon-cutting ceremony for the Service Module element of the International Space Station will be held April 26 at RSC-Energia in Moscow.

Top NASA, Russian Space Agency, RSC-Energia and European Space Agency space station officials will hold a press conference immediately before the rollout. After the ceremonies, the Service Module will be prepared for shipment to its launch site at Baikonur, Kazakhstan.

The Service Module is scheduled to be launched later this year for linkup as the third element of the International Space Station.

# Education Associates Pr ogram --best kept secret at Ames!

The Education Associates program, at the end of its first year, still remains one of the best kept secrets at Ames. Enthusiastic participants from both NASA and the nation's finest universities have made it clear that the program needs a higher profile at Ames.

Frank Aguilera, manager of the shorthaul civil tiltrotor program, knows the secret.



photo by Dominic Hart

From left to right: Wendy Holforty, Kristen Vollrath, and Frank Aguilera.

"You sure got my attention!" says Aguilera, who mentors two very talented graduate students, along with John Zuk, the program's principal scientist.

What do a masters candidate and a Ph.D. candidate have in common with the short-haul civil tiltrotor program?

"Maybe nothing," according to Wendy Holforty and Kristen Vollrath, "if not for the Education Associates (EA) program."

The EA Program is a cooperative space grant education program, sponsored by NASA Ames and developed by the University of California Extension, Santa Cruz, which links students and faculty with projects at Ames. Thanks to the efforts of their mentors, Frank Aguilera and John Zuk, both Kristen Vollrath and Wendy Holforty can be a part of the much-needed research for the tiltrotors.

Kristen Vollrath is working on her masters degree in aeronautical science with an emphasis in safety at Embry Riddle Aeronautical University. Currently, Vollrath is working on simultaneous and non-interfering (SNI) airport operations where vertical lift vehicles (helicopters and tiltrotors) will fly separate and distinct approaches to airports, thus removing them from the normal traffic flow and freeing that air space for additional larger fixed-wing aircraft. By removing the vertical lift vehicles from the standard traffic flow and allowing them to have their own approach to a landing spot other than the runway, the

capacity of an airport can be increased.

Wendy Holforty, who is working on her PhD in

aeronautics and astronautics at Stanford University, is conducting research on wake vortex avoidance and SNI operations. She

is designing a computer program to predict the location of wake vortices generated by aircraft in order to display the wakes in the cockpit. This display will allow pilots to not only see and avoid other aircraft, but to also avoid encountering their wakes. Her program and display will then undergo rigorous flight testing to determine the accuracy of the prediction. By predicting the location and movement of the aircraft wake, Holforty's work will allow the design of SNI approaches where the wake, as well as the aircraft, does not interfere with other aircraft.

John Zuk is delighted with their contribution to the tiltrotor project. He said "The Education Associates Program is outstanding due to the quality of the individuals involved, especially Wendy

and Kristen. They are very enthusiastic and have brought fresh new ideas to the project."

The short-haul civil tiltrotor (SHCT) program has the potential for revolutionizing the air transportation system. The use of fuel-efficient, short takeoff and vertical landing aircraft could reduce runway congestion and allow for expanded capacity at the busiest airports. Imagine a world of convenient, time-efficient air transportation with vertiports located in city centers near intermodal transportation. The SHCT project is developing technologies to overcome inhibitors to such a system. With reduced noise, improved cockpit technology, and contingency power, these aircraft could operate near residential and downtown areas, linking housing and jobs as never before. Imagine a world of happy commuters!

Frank Aguilera turned to the Education Associates program to augment his staff for this program. As Aguilera has discovered, the Education Associates program permits students and faculty to be brought on board to complement existing personnel in a flexible, cost-effective and productive manner.

"From my standpoint, the EA program is an outstanding one that provides experience with the research programs at NASA for the students and critical support to meet NASA's milestone requirements," said Aquilera.

continued on page 6

### **Human Interest**



photo by Deb Renick

Ames Exchange representatives and employees of the Ames Cafe serve up hot dogs and other "delicacies" to the hungry crowd.



photo by Deb Renick

The 3Com scoreboard welcomes all 1,300 NASA Ames attendees to the Giants game.

# Ames Exchange sponsors "Giants Day" 1999







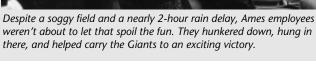




photo by Deb Renick

Left to right: Sherry Petersen, Cafe manager, Brandy Bell, office assistant for the Exchange; and Manual Bravo, catering manager.



photo by Sheila Johnson

Venoncia Braxton of Ames weathers the storm.

### **Human Interest/Events**

# Midnight Sun Marathon2

#### --Ames manager to run in Alaska marathon

Not many of us can say we've run a marathon in Alaska. However, this summer, an Ames code AF manager will have that unusual opportunity when he com-

petes in the annual Mayor's Midnight Sun Marathon in An-

chorage.

Tom Edwards, acting chief of Ames' aviation systems research, technology and simulation division (code AF) will join more than 2,000 other runners from all over the world on Saturday, June 19 for the 26.2 mile marathon. Many of the participants are running to support the Leukemia Society of America. A runner for the past 25 years, Edwards has a special motivation for participating in the Midnight Sun Marathon.

"A little over a year ago, I lost my mother to leukemia. I

learned first-hand the trials faced by victims of this tragic disease and their families," Edwards said. "It was about that same time that I learned about Team in Training, a non-profit organization that helps train marathon runners, who in turn raise funds for the Leukemia Society of America.

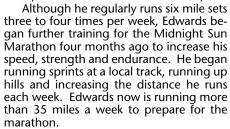
Leukemia is a malignancy of the blood forming-tissues, bone marrow, lymph nodes and spleen. It appears as uncontrolled multiplication of abnormal blood cells. When leukemia strikes, millions of abnormal and useless white blood cells accumulate in the tissues, preventing the production of normal cells. Leukemia and its related cancers strike over 100,000 Americans each year. This disease is the number one killer of children between the ages of 1 and 14. Its cause remains unknown.

Funds raised by race participants are used by the Leukemia Society of America to conduct medical research and provide assistance to leukemia victims and their fami-

lies. When he decided last fall to enter the marathon, Edwards set a goal of raising \$5,000 for the Leukemia Society. He wrote a letter to 150 of his friends asking them if they would sponsor him in the marathon.

In the letter, Edwards asked for donations ranging from \$26.20 ("a buck a mile, a real value," to \$250 ("you are a truly enlightened and goodlooking individual) to the maximum of \$500 ("I love you more than chocolate itself.") The humorous approach suc-

ceeded beyond his wildest expectations. So far, Edwards has raised more than \$7,500.



"It's very time consuming," Edwards said of his marathon-training program, "but the fundraising and getting to know the honoree patients shifts the focus outward and provides motivation." He admits he is a little apprehensive about how well he will do in the lengthy race. "There's a lot of rigorous training involved, but there's also a lot of enthusiasm and I'm very excited about participating in this marathon."

His training regime follows the Leukemia Society's comprehensive program called Team in Training, which provides supervised coaching, by world-class and Olympic athletes. During its five-year history, the Team in Training program has grown substantially, raising \$1.3 million in 1993 and \$45 million in 1998.

The Leukemia Society will pay Edwards' airfare to Alaska, his marathon entry fee and two nights lodging in Anchorage. Edwards hopes to complete the 26.2-mile race course, which circles the outskirts of Anchorage, in about three and a half hours.

"I'm really excited about running this marathon," Édwards said. "It's a tremendous challenge and a great opportunity to raise funds to fight leukemia. I'm also looking forward to going to Alaska; it's a beautiful place that I've always wanted to

Edwards has worked at Ames since 1983. A resident of Menlo Park, Edwards is married and the father of two young children. His wife, Yannette, works as a travel consult-

A web site located at http:// www.ci.anchorage.ak.us/Services/Departments/Culture/Parks/mayor.html will provide updates and additional information about the marathon. Further information about Team in Training can be found at http://www.teamintraining.org/. Persons wishing to sponsor Edwards in the marathon may contact him at ext. 4-4465 or by email at: tedwards@mail.arc.nasa.gov.

BY MICHAEL MEWHINNEY

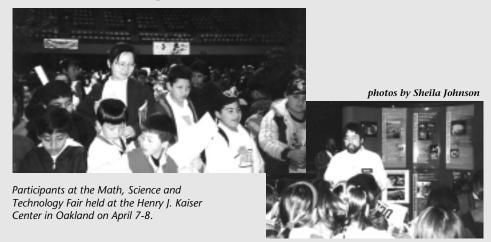


# Math, Science and Technology Fair held in Oakland

The Ames Speakers Bureau hosted this year's Math, Science and Technology Fair on April 7-8, at the Henry J. Kaiser Center, in Oakland, CA.

Whether you're speaking to a classroom of 30 or speaking to 3000, you're a welcome sight.

For more information on Ames' Speaker's Bureau program, contact Sheila Johnson at ext. 4-5054 or email her at: sajohnson@mail.arc.nasa.gov to join the Ames Speakers Bureau Program.



### Ames Training and News

# **Essentials of Biology set for May**

Biology, the study of life, is a dynamic, transforming force in the world around us. In the next century, biology will influence our lives, the environment, and developing technologies to an unprecedented extent.

Knowledge of life's fundamental biological processes is especially significant to NASA for advancing human exploration of our solar system, for influencing our search for life on other planets, and for guiding the establishment of ecosystems on other planets.

NASA's Essentials of Biology course was developed at the request of NASA Administrator, Dan Goldin, to assist all NASA employees in gaining an increased understanding of biology's role in tomorrow's world. The intent is to review and renew our appreciation of biology--the incredible, evolving science of life. Ames played a lead role in developing this unique course for the agency, and it has received highly favorable reviews following the premiere presentations at Headquarters.

The Essentials of Biology course will be presented at Ames on May 3 and 4. Ames employees are strongly encouraged to attend and contractor staff are invited to participate as well.

The Essentials of Biology course is a unique, two-part multimedia presentation. Four speakers, all specialists in their fields, will present 20-40 minute segments using computer generated slide shows and video tapes of subjects ranging from the origins

of life, through the importance of a single cell, to the human body and Earth's ecosystems.

Although the presentations are designed for those with little or no background in the area, they illustrate cuttingedge research and technology as well as the relevance of biological studies to NASA's mission

The 7-hour course will be presented over two days, in Bldg. N201, Auditorium.

Part I May 3, 8:30 a.m. to noon or May 3, 1:00 to 4:30 p.m.

Part II May 4, 8:30 a.m. to noon or May 4, 1:00 to 4:30 p.m.

No registration is necessary. However, attendance will be recorded in your official training record. Attendees will be given the opportunity to ask questions and interact with the presenters throughout the course, with longer question-and-answer sessions at the end of each day.

Any questions regarding the presentation of the Essentials of Biology course may be directed to Linda Jensen at Ijensen@mail.arc.nasa.gov or call her at ext. 4-6985. Alternately, contact Deb Narasaki at dnarasaki@mail.arc.nasa.gov or call her at ext. 4-2082.

# Education Associates Pr ogram --best kept secret at Ames!

continued from page 3

Education Associates can be given variable appointments from 2 to 12 months or more, may be full or part time, and can start at any time during the fiscal year. There are no deadlines, but school schedules can affect the availability of top talent. Ames sponsors may select qualified EA candidates from a variety of sources including the program's web site, from referrals, or from their own contacts. The options are virtually unlimited.

And, almost as important, the costs to sponsors are well within the manageable range. For example, a full-time student enrolled in a bachelor's program will cost their Ames sponsor \$1,800 per month, whereas a Ph.D. student can be brought on board for a monthly charge of \$2,520. Costs for part-time interns are proportionately lower; the fee for a post-doctoral or faculty fellow is subject to negotiation.

The key feature of the program is the flexibility it provides for both the Education Associates and Ames sponsors alike. It is still growing to meet even more needs of both the Ames user community and student and faculty participants.

EA candidates represent a wide range of educational levels (from undergraduates to faculty) and a broad spectrum of fields of study. They must be U.S. citizens and be enrolled or teaching at an accredited college or university in the United States. There are currently over 150 student applications, with a dozen new ones being submitted each week. All of these applications can be viewed online at http://edassoc.arc.nasa.gov.

A brochure, entitled "Tap Higher Education" is available to show Ames personnel how they can team up with students and faculty through the Education Associates program. Additional information and online forms can be found at the program's web site at: http://edassoc.arc.nasa.gov.

The Education Associates program has been developed and is being managed by U.C. Santa Cruz Extension. The UCSC onsite manager is Donna Zetterquist. She can be contacted in Ames Building 19, room 1091, at ext. 4-6543, or via email at: dzetterquist@mail.arc.nasa.gov.

# NASA receives top marks

Out of the government's 24 largest agencies, only NASA and the National Science Foundation were given "A's" on their 1998 financial statements. Subcommittee Chairperson Stephen Horn, R-Calif., issued grades to each of the 24 agencies. The General Services Administration, Department of Labor, and Social Security Administration all received a B-. Only one other agency, the Department of Energy, received a passing score with a grade of C. The remaining 18 agencies received failing grades from Subcommittee Chair Horn. Horn slapped six agencies with Ds because of various weaknesses in their financial statements and gave five agencies Fs because they were unable to submit financial statements by the March 1 deadline, even though the fiscal year ended last September.

This is the fifth consecutive year where NASA received an "unqualified" or "clean" opinion from its auditors. A clean opinion means that the agency's financial statements are reliable. This is also the third consecutive year where NASA received the top mark from subcommittee Chair Horn. The Agency's financial statements are consolidated from each of NASA's ten centers. If any individual center's financial reporting does not meet the auditor's requirements, it jeopardizes the entire agency. Ames' financial management division has proven once again to be a crucial and important component of both center and Agency operations.

To see NASA's 1998 accountability report, go to: http://ifmp.nasa.gov/codeb/library/1998AccountabilityReport.pdf. Ames' 1998 annual report can be found on the CFO web page at: http://cfo.arc.nasa.gov

#### Astrogram deadlines

All Ames employees are invited to submit articles relating to Ames projects and activities for publication in the *Astrogram*. When submitting stories or ads for publication, submit your material, along with any questions, in MS word by e-mail to astrogram@mail.arc.nasa.gov on or before the deadline.

Deadline	<i>Publication</i>
Mon Apr 26	Fri, May 7
Mon, May 10	Fri, May 21
Mon, May 24	Fri, Jun 4
Mon, Jun 7	Fri, Jun 18

#### **Events & Classifieds**

#### Calendar

**Jetstream Toastmasters,** Mondays, 12 noon to 1 p.m., N-269/Rm. 179. Guests welcome. POC: Jenny Kahn at ext. 4-6987 or Karen Matsuoka at ext. 4-6184.

Ames Bowling League meets at Palo Alto Bowl every Tuesday at 6 p.m. The league is in need of substitute bowlers. POC: Mina Cappuccio at ext. 4-1313.

Ames Ballroom Dance Club. Ames Ballroom Dance Club. Tuesdays: Merengue 3/30, Niteclub 2-Step 4/6, 4/13, 4/20. 3 levels of classes, from Beg, to Int., 5:15 - 6:45pm. Moffett Training and Conference Center, Bldg. 3/Showroom. Women dancers are especially encouraged to join. POC: Helen Hwang, hwang@dml.arc.nasa.gov. ABDC Website: http://arcapps.arc.nasa.gov/lnfo/

Ames Child Care Center Board of Directors Meeting, Wednesdays, 12 noon to 1 p.m., N-213/Rm. 204. POC: Debbie Wood at ext. 4-0256.

Model HO/HOn3 Railroad Train Club at Moffett Field invites train buffs to visit and join the club in Bldg. 126, across from the south end of Hanger One. The club is in particular need of low voltage electricians and scenery builders & maintainers. Work nights are usually on Friday nights from 7:30 p.m. to 9:30 p.m. Play time is Sunday from 2 p.m. to 4 p.m. For more info, call John Donovan at (408) 735-4954 (work) or (408) 281-2899 (home).

Ames Java User Group, Apr 28, 2:00 p.m. to 3:30 p.m., N258/Rm 127. Topic: Java Servlet programming by author Jason Hunter (http://www.servlets.com/jsp/about.html). Q&A session will also include James Davidson, head of Sun's Servlet API. JUG URL: http://jug.ar.nasa.gov/meetings.html. POC: Sharon Marcacci (smail.arc.nasa.gov/meetings.html.)

Ames Contractor Council Meeting, May 5, 11 a.m., N-200 Comm. Rm. POC: Greg Marshall at ext. 4-4675.

Hispanic Advisory Committee for Employees, May 6, 11:45 a.m. to 12:30 p.m., N-239/Rm 177. POC: Carlos Torrez at ext. 4-5797.

Environmental, Health & Safety Monthly Information Forum, May 6, 8:30 a.m. to 9:30 a.m., Bldg. 19/Rm 1078. POC: Linda Vrabel at ext. 4-0924.

Ames African American Advisory Group Meeting, May 6, 11:30 a.m. to 12:30 p.m., N-241/Rm 237. POC: Mary Buford Howard at ext. 4-5095.

Southbay FEW Chapter Mtg, May 11, 11:30 a.m. to 1 p.m., N-241/Rm B1. POC: Christine Munroe, ext. 4-4695.

**Professional Administrative Council (PAC) Meeting,** May 13, 10:30 a.m. to 11:30 a.m. Location TBD. POC: Janette Rocha, ext. 4-3371.

Ames Sailing Club Meeting, May 13, 11:30 a.m. to 1 p.m., N-262/Rm. 100. POC: Greg Sherwood, ext. 4-0429.

Ames Multicultural Leadership Council Meeting, May 19, 11:30 a.m. to 1 p.m., Galileo Rm/Ames Café. POC: David Morse, ext. 4-4724 or Sheila Johnson, ext. 4-5054.

NFFE Local 997 Union General Meeting, May 19, 11:30 a.m. to 12:30 p.m., Bldg. 19/Rm. 2017. Guests welcome. POC: Marianne Mosher at ext. 4-4055.

Ames Asian American Pacific Islander Advisory Group Meeting, May 20, 11:30 a.m. to 1 p.m., N-241/Rm. B2. POC: Daryl Wong at ext. 4-6889 or Brett Vu at ext. 4-0911.

Ames Amateur Radio Club, May 20, 12 noon, N-260/Conf. Rm. POC: Mike Herrick, K6EAA at ext. 4-5477.

Native American Advisory Committee Mtg, May 25, 12 noon to 1 p.m., Ames Café. POC: Mike Liu at ext. 4-1132.

Nat'l Association of Retired Federal Employees, S.J. Chapter #50, Meeting, Jun 11, at the Elk's Club, 44 W. Alma Avenue, San Jose. Social hour: 10:30 a.m. Prog. & bus. mtg. follow lunch at 11:30 a.m. POCs: Mr. Rod Peery, Pres., (650) 967-9418 or NARFE 1-800-627-3394.

### **Ames Classifieds**

Ads for the next issue should be sent to astrogram@mail.arc.nasa.gov by the Monday following publication of the present issue and must be resubmitted for each issue. Ads must involve personal needs or items; no commercial/third-party ads and will run on space-available basis only. First-time ads are given priority. Ads must include home phone numbers; however, Ames extensions will be accepted for carpool and lost and found ads only. Due to the volume of material received, we are unable to verify the accuracy of the statements made in the ads.

#### Housing

Room for rent, available now. Walking distance from Castro. Share bath/kitchen/garden/laundry facilities. Near Hwy 101/237/85/Cent. Exp. Rent: \$550 mo. Call (650) 969-3932 or email at: solemate@best.com

Italian postdoc at Ames needs room to rent from April-Oct. Please call ext. 4-0312.

Temp. or part-time use. Ideal for commuter or intern. Semi-private. Share bath/kitchen/phone/laundry. Near Hwy 101 /237/85. Weekly: \$100 (+ one mo). Call (650) 969-3932 or email at: solemate@best.com

Condominium for rent in Sunnyvale. One story, end unit, 2bd/2ba., Completely furnished. Club house, sauna, swimming pool. T.V., cable and HOA dues paid. No pets. \$1,750 mo. Call (650) 965-4859.

For rent: 3bd/2ba duplex, Klee Ct. Sunnyvale; near community ctr, 5 miles from LMMC. Call (408) 738-4849.

For rent: N/S person to share 3bd/2ba with 2 of same. San Jose near H101/280. Incl. bd and LR w/ fireplace. Kitchen and W/D access. Cable TV. Phone not incl. Avail now. \$600 + 1/3 utils. First/last month, plus \$350 dep. Call (408) 297-8959.

Rural house to share. Singles or a couple. Gilroy near 101. Occasional livestock and lawn care. Horse experience a plus. Garage space, satellite TV, and Caltrain available. N/S. From \$500. Call (650) 593-9940 or email: lazypixl@wco.com

Studio apt., \$670 and 1bd apt. \$800. One mile from Moffett. Call (650) 965-0775.

Grad student/University of Kentucky needs furnished summer housing from June 9 to Aug 23. Must be near public transportation. Email JCBall0@pop.uk.edu or call (606) 269-9354.

#### Transportation

'84 SAAB 900 Turbo, standard 5 speed transmission; 4 dr; sunroof; electric windows/locks; stereo w/CD player. Runs great; recently smogged. \$950. Lana or Derek at (650) 604-2654, (650) 961-3521 or (510) 264-5624.

485 Mitsubishi 4WD pickup, 101K mls, orig. owner, all records, BacPac shell, Sony pop-out stereo, PS, new carburetor & fuel pump, straight body. \$3,500 or B/O. Call (408) 945-3917, or e-mail: nengim@svpal.org

'88 Plymouth Colt, 2dr/hatchback, 4-speed manual, CD (with remote), blue metallic, 108K, one owner, great shape, very clean, \$2,250 or B/O. Call (408) 985-5428.

'88 Mazda 323. runs well. 128k mls. \$1,200. Peter (510) 888-1778.

'89 Plymouth Grand Voyager, white, auto, AC, new tires and battery, reliable, 100K mls., maintenance records. \$2,300. Call (408)730-1585.

'90 AMC Eagle Talon, Sony CD system, Clifford alarm system, rebuilt engine, new clutch and brake assembly. \$5,500 or B/O. Ray (408) 280-0122.

'90 Corvette, convertible, dk metallic green/tan top, AT, 60K mls, polished chrome rims, loaded, \$15,500. Call (408) 299-0223.

'90 Mitsubishi Mirage; 2dr hatchback, 101K mls, automatic transmission, A/C, AM/FM Cassette. Good commute car. \$1,700. Call (408) 295-2078.

'92 BMW 525i, 4D, 6-Cyl, 2.5 Ltr, automatic, 91K mls, cashmere ext, leather int, very good cond, A/C, pwr steering & windows, AM/FM stereo/cassette, CD chngr (6 cd), ABS, pwr seats (drvr & pssg), sliding sun roof. \$18K. Call (510) 745-0776 or e-mail: tho\_cpe@yahoo.com

'96 Saturn SC2, loaded 5spd, grn w/tan lthr int, AC, CC, 10 CD prem snd, all pwr, sunrf. Exc. condition. \$12,000 or B/O. Rich (209) 833-9177.

#### Miscellaneous

The Ames cats must be removed from the wetlands and need new homes. Kind people needed to foster one sterilized cat per person: longhairs, shorthairs, stripes or solids. Call (408) 739-3171.

A loving home is looking for a kitten. Call (408) 264-1516.

EvenFlow stroller; 2 yrs old, very clean, dark blue/white, \$40. Call (408) 295-2160.

Logitech color scanman for Windows w/manuals and software, \$20; Dolby ProLogic surround sound decoder w/powered rear channels. \$35; Pentium MMX 166Mhz w/new motherboard, \$95. Call (408) 295-2160.

#### **Ames Retirements**

Name Code Date

Mary A. Hubbard JF 4/16/99

Tom Lasinski IN 4/16/99

Acer computer system 486DX , 66mhz, 28MB RAM, 521MB harddrive, internal CD ROM, 1.44MB floppy, sound card, modem, 2MB video memory and a 14" color monitor. \$250. Frank (408) 752-4645.

Ski apparel: gloves, caps, parkas, bibs, overalls, jumpsuits, women's sizes 6 - 8, and children's sizes. Ski bag and skis. Rose (408) 371-9680 after 6p.m. (lv msg).

Epson 800 color printer. 200 or B/O. Call (831) 636-3144.

Whirlpool refrigerator/freezer works great, yellow. \$75 or B/O. Queen size oak water bed frame with bookcase headboard, \$100 or B/O. Mike (408) 295-9265.

Farberware convection oven turbo 460 - 18x12x10, \$50 or B/O. Call (408) 281-3654.

Antique folding youth day bed, drop side, custom mattress, walnut, \$90 or B/O. Call (408) 261-2061.

1996 M2 Pro Rode Bike, 57 cm., full Dura Ace, new wheels, Cinelli Ti stem and Eubios bars, perfect condition, extras, \$1,500; Ultralite composite wheel set-tubular, 12-23 Dura Ace, Vitoria Corsa CX tires, (3 ea.), \$600; Minoura, Mag Trainer and Mag Turbo Trainer, \$65 ea; Yakima Tandem bike racks(2 ea.), \$50 ea; wheel racks, (2 ea.) \$10 ea. Randy (408) 734-9550.

#### Vacation rental

Kailua, Hawaii (Kona Coast) Condo. Sleeps 4. Close to airport. Fully equipped kitchen. Pool and BBQ area. Walk to town. Available from July 22 to Aug. 6. \$70 per night or \$420 per week. Call (408) 779-2379 or email at: tigger@qarlic.com.

Lake Tahoe-Squaw Valley townhse, 3bd/2ba, View of slopes, close to lifts. Wkend \$400, midwk \$150 nite. Includes linens, firewd, cleaning service. Call (650) 968-4155 or email at: DBMcKellar@aol.com

#### **Lost & Found**

Moffett Field lost and found may be reached via ext. 4-5416 at any time. Residents and employees at Ames may also use Internet Browser at: http://ccf.arc.nasa.gov/codejp/pages/lostFound.html to view a list of found property and obtain specific instructions for reporting lost or found property and how to recover found property. Call Moffett Field Security Police Investigations Section at ext.4 1359 or email at: mfine@mail.arc.nasa.gov.

#### **Ames Activities**

# Space Act award ceremony honors Ames employees

The Ames Commercial Technology Office honored ten project teams for their outstanding scientific and technological contributions to NASA's commercial, aeronautical and space missions during a Space Act Award Ceremony held April 7 in the Ballroom of the Moffett Training and Conference Center.

Honorees and their projects included:

#### **Lightweight Ceramic Ablator (LCA)**

Huy K. Tran, Ames
William D. Henline, Ames
Daniel Rasky, Ames
Salvatore R. Riccitiello, retired, Ames
Ming-ta Hsu, HC Chemical Research
& Services.

# ARCOPTR - Pulse Tube Cooler Modeling Program

Pat Roach, Ames Ali Kashini, Atlas Scientific

#### **Temper Foam**

Charles Kubokawa, retired, Ames Charles Yost, Dynamic Systems Inc.

# Generalized Approximate Reasoning Based on Intelligent Control (GARIC)

Hamid Berenji, Intelligent Inference Systems

Victor Chu, Intelligent Inference Systems

Silvano Colombano, Ames Pratap Khedkar, General Electric Ping-Wei Chang, IBM

Steven Swanson, Johnson Space Center Anil Malkani, Phoenix Systems

Sujit Saraf, Intelligent Inference Systems

#### Real-Time Lunar Prospector Data Visualization Using Web Based Java Glenn Deardorff, MRJ, Inc. Larry R. Kellogg, Orbital Sciences Corp. Kenneth John Bollinger, Recom

Kenneth John Bollinger, Recom Bryan D. Green, MRJ, Inc. Ling-Jen Chiang, MRJ, Inc.

#### Secure E-Mail Plug-in (SEP)

Dan Jensen, Raytheon Spiros Angelopoulos, Raytheon Paul Ma, Ames Helen Euler, Ames Scott Figgins, Sterling Scott Santiago, Ames Marco Morana, Sterling Gary Angelici, Raytheon Lidia Popovici, Raytheon Kiku Murakami, Ames

# ENSAERO-Wing: A Multi-Disciplinary Program for Fluid/Structural/Control Interaction Studies Guru Guruswamy, Ames

# Center TRACON Automation System - founders

Dallas Denery, Ames Leonard Tobias, Ames Steven Green, Ames William Nedell, Wyndemere Heinz Erzberger, Ames

#### Mars VE CD-Rom

Laura Shawnee, Ames (representing the team)

# NASA Rehydration Beverage John Greenleaf, Ames



photo by Dominic Hart

Chuck Kubokawa, retired Ames employee (left) chats with Ken Souza, Chief, life sciences division (right) at the Space Act award ceremony on April 7.



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